

Active Primary Lead smelter located 30 miles south of St. Louis on the banks of the Miss. River Stack is 550 feet high. Maximum production is 250,000 tons per year. Current production 60% or 150,000 tons per year.

MDNR, EPA and Doe Run entered Order May, 2001 to characterize site and address risks posed by yard soils, slag pile, air emissions, and groundwater.

Lead bearing materials confirmed on streets in September of 2001. 300,000 ppm.

Ordered Doe Run to accelerate soil characterization in 60 days.

Sampling indicated widespread lead contamination in surface soils. 75% of yards above 400ppm Highest levels generally along truck routes to smelter.

EPA Ordered Doe Run to replace yard soils at all residential properties where children under 6 years old lived and all residences where soil lead concentrations exceeded 2,500 ppm to be completed within one year. Also ordered cleaning of home interiors and materials handling improvements.

Priority was given to residents with children under 6.

EPA provided temporary relocation to families with children under 6 until their yard soils were replaced and their home interiors were cleaned.

Due to a potential for recontamination of home interiors, EPA is considering interior standards that are lower than the current HUD standards.

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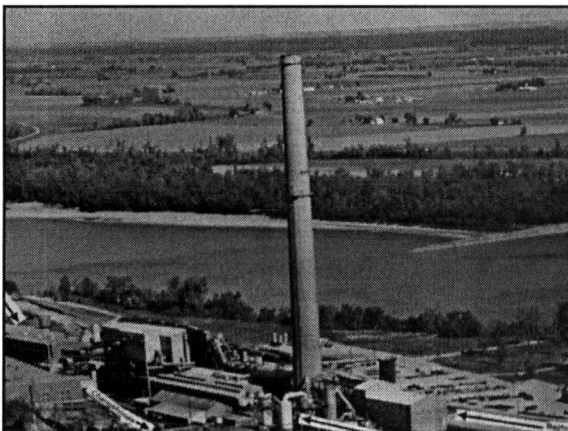
Superfund

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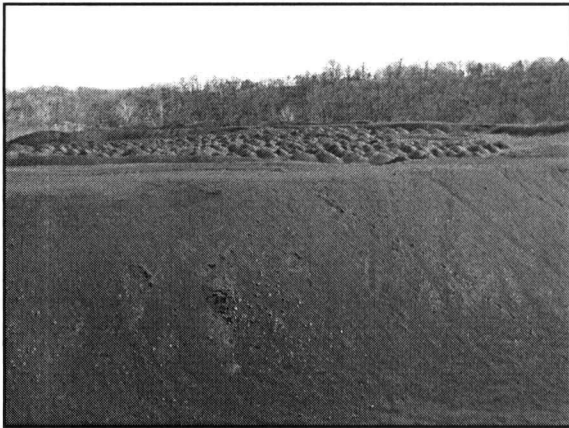
EPA, REGION 7

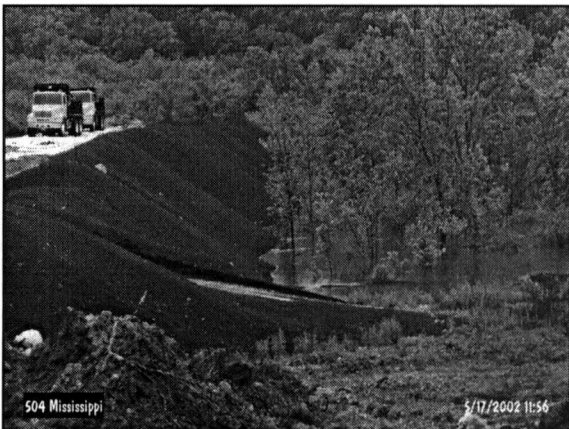
**Herculaneum Lead
Smelter Site**

Gene Gunn, 913-551-7776
Bruce Morrison, RPM, 913-551-7755
Jim Silver, OSC, 636-475-3926









Current Actions at Site

- Surface soil replacement
- Cleaning home interiors to meet HUD standards
- Provide HEPA vacuums to residents
- Improve smelter operations/reduce emissions

Current Actions at Site

- Cleaning streets and haul routes
- Community outreach/Health education
- Monitoring for recontamination
- Voluntary Buyout within 3/8 mile of facility (MDNR)

Site Progress

- 200 yards have had soils replaced ; 65 refusals
- 88 home interiors cleaned; 144 refusals
- All residences with children under 6 years of age cleaned
- All residences where lead contamination above 2500 ppm cleaned

Site Progress

- 100 HEPA vacuums provided by EPA
- 908 yards sampled; 616 yards have all or partial lead contamination above 400 ppm
- Operational improvement at smelter



Sampling

- Ambient air monitoring
- Soil sampling
- Street sampling – concentration and loading
- Interior dust – concentration and loading
- Deposition sampling – soil pots and adhesive paper



Home Interior Status

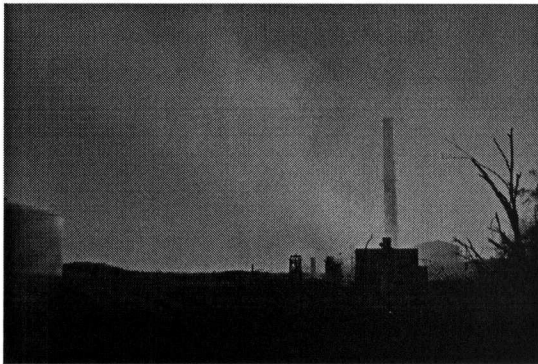
- Home interiors are being cleaned to meet HUD standards.
- EPA conducting re-sampling of previously cleaned home interiors
- Focus group formed to develop site-specific interior cleanup protocols and standards

Focus Group Status

- Lead dust experts provided preliminary recommendations for site on 12/19/02
- Preliminary recommendations include reducing the HUD standards by 50% and modifying sampling protocols
- Focus group formed additional questions for experts

Materials Handling and Transportation

- EPA required Doe Run to improve these operations to prevent tracking and spilling of lead bearing materials onto streets.
- Improvements seen, but street concentrations of lead remain high.
- Doe Run implementing additional actions



Air Monitoring Results

- Historic air data shows quarterly average ambient air concentration as high as 11.6 ug/m3 (1st quarter 1998)
- Data shows that the area met the ambient air standard for lead (1.5 ug/m3) for past year.

CHILD BLOOD LEAD MONITORING

- 28% OF CHILDREN LESS THAN 6 YEARS OLD EXCEEDED 10 MG/DL AT BEGINNING OF PROJECT
- HIGH PERCENTAGES CLOSER TO FACILITY
- MOST RECENT MONITORING SHOWS 14% EXCEEDANCE
- MANY FACTORS MAY BE CONTRIBUTING

Other Site Issues

- 24-acre slag pile in wetland
- Vacant housing
- Groundwater
- Ecological Impacts
- Sulfur dioxide releases
- Access refusals

EPA, REGION 7

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**Land Revitalization Team Meeting
September 9, 2003
1-3 p.m. Room 5262**

Objectives:

- Update team members on recent conference calls/national developments
- Hear briefings on candidate clusters/communities for OCP/LRP
- Select pilot(s)

Agenda

- Introductions
 - Program Update - Kerry
 - Presentation of Criteria for Pilot Selection - Kerry
 - Presentations on pilot candidates - 10 min. max.
 - **Federal Agency Stewardship Pilot, St. Louis, MO** - Scott Marquess
 - **North Platte, NE** - Steve Kovac, Tonya Howell
 - **Oak Grove Village/Sullivan, MO** - Steve Kovac, Tonya Howell
 - **Kansas City, MO** - Debi Morey, Marcus Rivas, Craig Smith
 - **Herculaneum, MO** - Bob Feild, Bruce Morrison
 - **McCook, NE** - Stephanie Doolan
 - Rank and order selections
 - Determine next steps
 - Decide meeting schedule
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